Session Program

11–15 Jan 2027

From Gaia to GaiaNIR - Science from Precision Astrometry Across the Universe and Beyond the Extinction Barrier

Grand challenges

Friday 15 January

11:10

Grand challenges: Example cases

Session

11:10–11:30 **Mapping all Milky Way components in 3D**

Speaker
Vasiliki Pavlidou

11:30–11:50

Bring your code to the data: SPACIOUS and the road to petabyte-scale surveys

Speaker
Dr Alfred Castro-Ginard

11:50–12:05 **MW-Atlas: Mapping the three-dimensional dust density using Gaia**

Speaker
Fabian Polnitzky

12:05–12:20

mw-atlas: Mapping the Milky Way's Gravitational Potential from _Gaia_ Data with Information Field Theory

Speaker
Matthias Hübl

12:20

12:20

Grand challenges: Discussion

Session

12:20–12:50 **Discussion on possible grand challenges**

Speaker
Nicholas Walton

12:50